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based on application date in CA/CAplus and USPATFULL/USPAT2
may be affected by a change in filing date for U.S. applications.
NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for
U.S. patent records in CA/CAplus
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=> File Medline EMBASE Biosis Caplus

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FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 12:15:10 ON 01 AUG 2005

FILE 'EMBASE' ENTERED AT 12:15:10 ON 01 AUG 2005

FILE 'BIOSIS' ENTERED AT 12:15:10 ON 01 AUG 2005

FILE 'CAPLUS' ENTERED AT 12:15:10 ON 01 AUG 2005

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

=> s (chymotrypsin or trypsin)
L1 250505 (CHYMOTRYPSIN OR TRYPSIN)

=> s (serine (3A) 217) or S217 or Ser217
L2 82 (SERINE (3A) 217) OR S217 OR SER217

=> s (isoleucine (3A) 212) or I217 or Ile217
L3 11 (ISOLEUCINE (3A) 212) OR I217 OR ILE217

=> s l1 (20A) l2
L4 1 L1 (20A) L2

=> d l4 bib ab

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:446347 CAPLUS
DN 133:219283
TI Trypsin-specific acyl-4-guanidinophenyl esters for α-chymotrypsin-
catalysed reactions. Computational predictions, hydrolyses, and peptide
bond formation
AU Gunther, Robert; Thust, Sven; Hofmann, Hans-Jorg; Bordusa, Frank
CS Department of Biochemistry, Faculty of Biosciences, Pharmacy and Psychology, University of Leipzig, Halle/Saale, Germany
SO European Journal of Biochemistry (2000), 267(12), 3496-3501
CODEN: EJBCAI; ISSN: 0014-2956
PB Blackwell Science Ltd.
DT Journal
LA English
AB The function of acyl-4-guanidinophenyl esters as substrate mimetics for
the serine protease α-chymotrypsin was investigated by
protein-ligand docking, hydrolysis, and acyl transfer expts. On the basis
of protein-ligand docking studies, the binding and hydrolysis properties
of these artificial substrates were estimated The predictions of the rational
approach were confirmed by steady-state hydrolysis studies on
4-guanidinophenyl esters derived from coded amino acids (which
α-chymotrypsin is not specific for), non-coded amino acids, and even
simple carboxylic acid moieties. Enzymic peptide syntheses qualify these
esters as suitable acyl donors for the coupling of acyl components far
from the natural enzyme specificity, thus considerably expanding the

synthetic utility of α-chymotrypsin.
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l1 (20A) l3
L5 0 L1 (20A) L3

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	24.55	24.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 29, 2005 (20050729/UP).

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All: 1 Review: 0

1: Ishida T, Kato S. Related Articles, Links

Theoretical perspectives on the reaction mechanism of serine proteases: the reaction free energy profiles of the acylation process.
J Am Chem Soc. 2003 Oct 1;125(39):12035-48.
PMID: 14505425 [PubMed - indexed for MEDLINE]

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Items 1 - 2 of 2 One page.

1: Ghani U, Ng KK, Atta-ur-Rahman, Choudhary MI, Ullah N, James MN. Related Articles, Links

Crystal structure of gamma-chymotrypsin in complex with 7-hydroxycoumarin.
J Mol Biol. 2001 Nov 30;314(3):519-25.
PMID: 11846564 [PubMed - indexed for MEDLINE]

2: Capasso C, Rizzi M, Menegatti E, Ascenzi P, Bolognesi M. Related Articles, Links

Crystal structure of the bovine alpha-chymotrypsin:Kunitz inhibitor complex. An example of multiple protein:protein recognition sites.
J Mol Recognit. 1997 Jan-Feb;10(1):26-35.
PMID: 9179777 [PubMed - indexed for MEDLINE]

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22701	(chymotrypsin or trypsin)	USPAT	OR	OFF	2005/08/01 11:40
L2	1435	(serine near3 "217") or "S217" or Ser217	USPAT	OR	OFF	2005/08/01 11:57
L3	12	l1 and l2	USPAT	OR	OFF	2005/08/01 11:41
L4	0	l1 near10 l2	USPAT	OR	OFF	2005/08/01 11:41
L5	0	l1 near20 l2	USPAT	OR	OFF	2005/08/01 11:41
L6	19	(isoleucine near3 "212") or I217 or Ile217	USPAT	OR	OFF	2005/08/01 11:58
L7	0	l1 near29 l6	USPAT	OR	OFF	2005/08/01 11:58